

5/28/2004

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG

US 2004091422 A1 20040513 US 2003-627991 20030728
PRAI US 2002-398653P P 20020727
US 2002-427266P P 20021118
US 2002-437270P P 20021230

OS MARPAT 140:141702

IT 533935-35-2P 533935-36-3P 533935-37-4P
533935-38-5P 653572-06-6P 653572-07-7P
653572-08-8P 653572-09-9P 653572-10-2P
653572-11-3P 653572-12-4P 653572-13-5P
653572-14-6P 653572-15-7P 653572-16-8P
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653572-20-4P 653572-21-5P 653572-22-6P

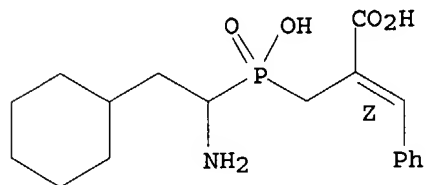
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(design and synthesis of aminophosphinic acid derivs. as renal
dipeptidase inhibitors and antitumor agents)

RN 533935-35-2 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-
3-phenyl-, (2Z)- (9CI) (CA INDEX NAME)

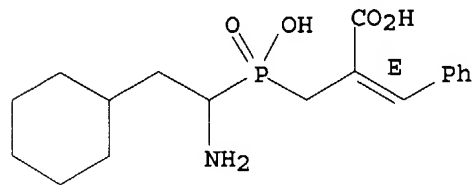
Double bond geometry as shown.



RN 533935-36-3 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-
3-phenyl-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 533935-37-4 CAPLUS

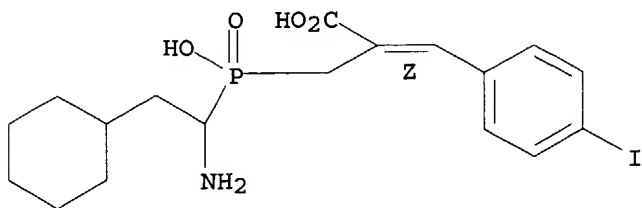
CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-

10/627991

5/28/2004

3-(4-iodophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

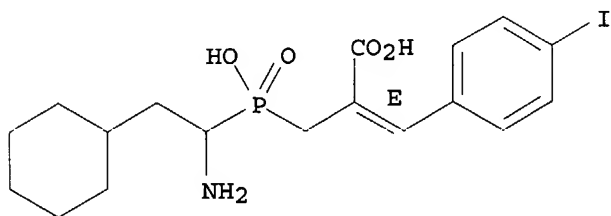
Double bond geometry as shown.



RN 533935-38-5 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-3-(4-iodophenyl)-, (2E)- (9CI) (CA INDEX NAME)

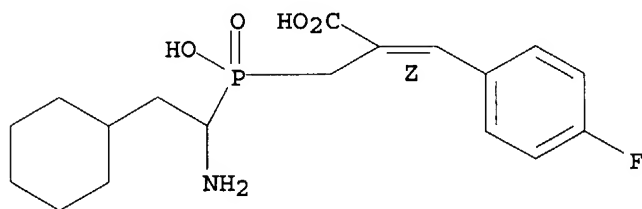
Double bond geometry as shown.



RN 653572-06-6 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-3-(4-fluorophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

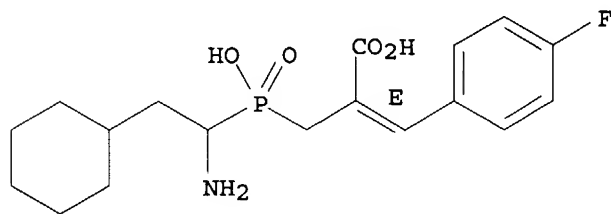
Double bond geometry as shown.



RN 653572-07-7 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-3-(4-fluorophenyl)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



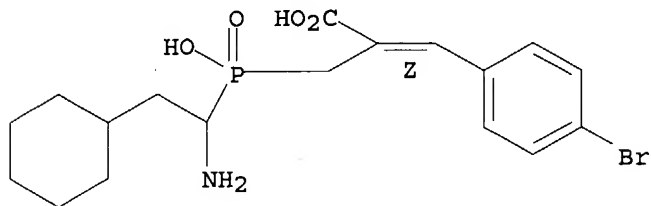
10/627991

5/28/2004

RN 653572-08-8 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-
3-(4-bromophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

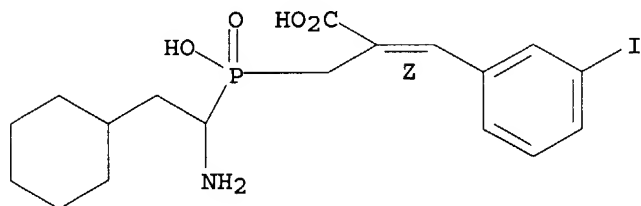
Double bond geometry as shown.



RN 653572-09-9 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-
3-(3-iodophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

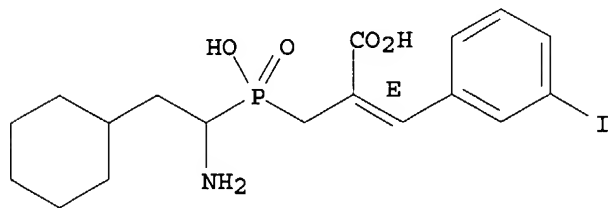
Double bond geometry as shown.



RN 653572-10-2 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-
3-(3-iodophenyl)-, (2E)- (9CI) (CA INDEX NAME)

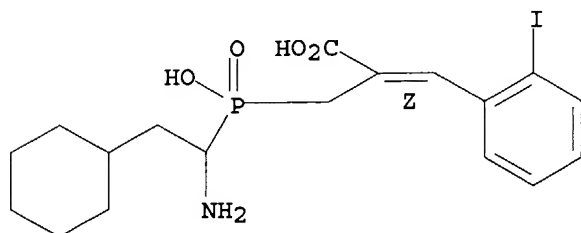
Double bond geometry as shown.



RN 653572-11-3 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl)methyl]-
3-(2-iodophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



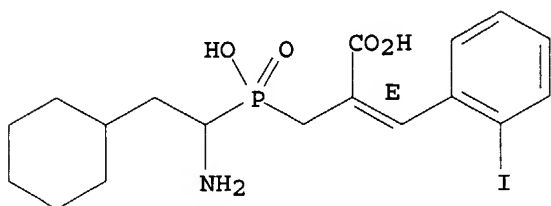
10/627991

5/28/2004

RN 653572-12-4 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-
3-(2-iodophenyl)-, (2E)- (9CI) (CA INDEX NAME)

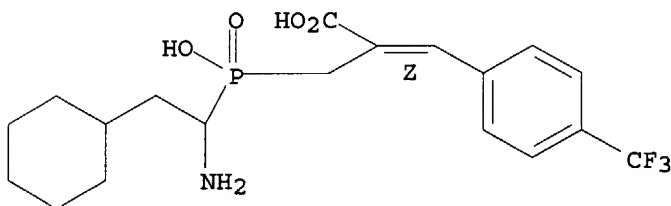
Double bond geometry as shown.



RN 653572-13-5 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-
3-[4-(trifluoromethyl)phenyl]-, (2Z)- (9CI) (CA INDEX NAME)

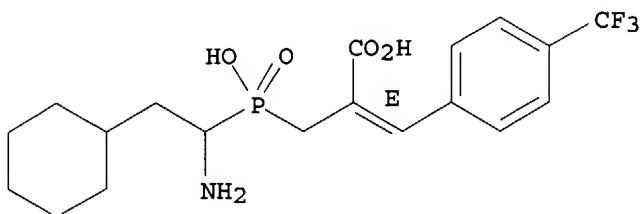
Double bond geometry as shown.



RN 653572-14-6 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-
3-[4-(trifluoromethyl)phenyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

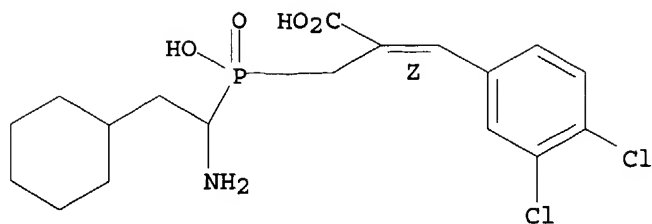


RN 653572-15-7 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-
3-(3,4-dichlorophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

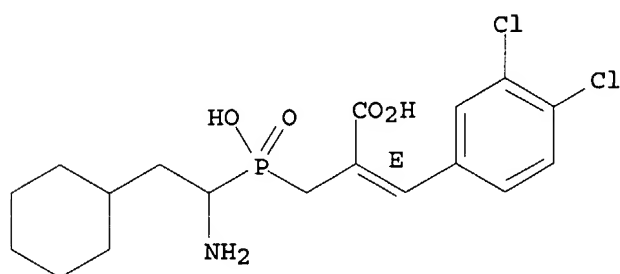
5/28/2004



RN 653572-16-8 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-3-(3,4-dichlorophenyl)-, (2E)- (9CI) (CA INDEX NAME)

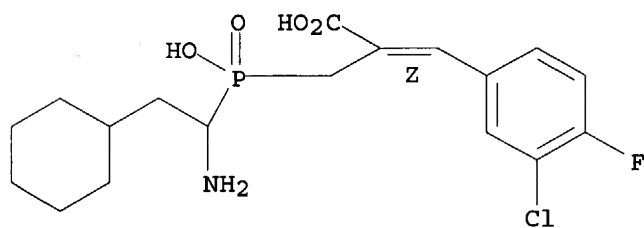
Double bond geometry as shown.



RN 653572-17-9 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-3-(3-chloro-4-fluorophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



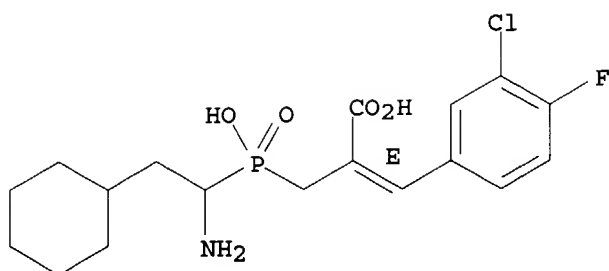
RN 653572-18-0 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-3-(3-chloro-4-fluorophenyl)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

10/627991

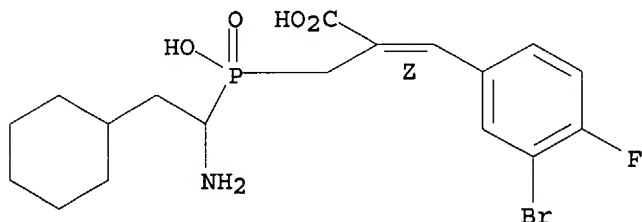
5/28/2004



RN 653572-19-1 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-3-(3-bromo-4-fluorophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

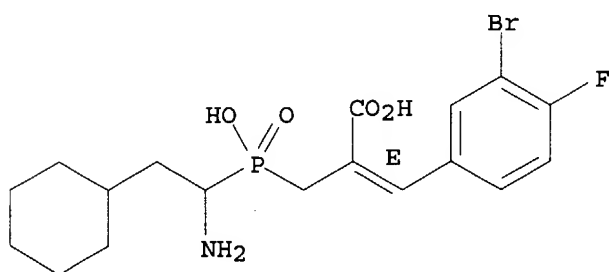
Double bond geometry as shown.



RN 653572-20-4 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-3-(3-bromo-4-fluorophenyl)-, (2E)- (9CI) (CA INDEX NAME)

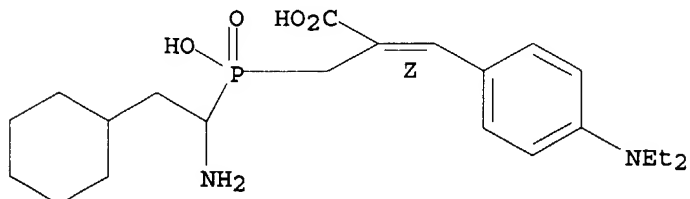
Double bond geometry as shown.



RN 653572-21-5 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-3-[4-(diethylamino)phenyl]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



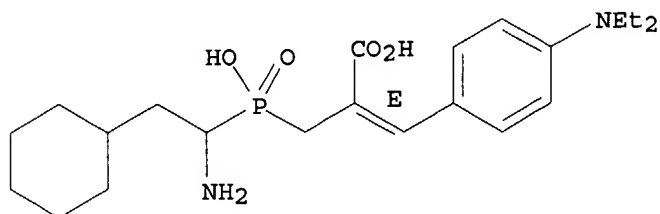
10/627991

5/28/2004

RN 653572-22-6 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-
3-[4-(diethylamino)phenyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AB Aminophosphinic acid derivs. were synthesized as potential inhibitors of renal dipeptidase (RDP), an enzyme over-expressed in benign and malignant colon tumors, and several compds. showed potent enzyme-inhibitory activity. In an example reaction, (E)-[BocNH(C₆H₁₁CH₂)CH]P(O)(OMe)[CH₂C(CO₂Me):CHPh] was prepared in two steps from [BocNH(C₆H₁₁CH₂)CH]P(O)(OMe)H and hydrolyzed to (E)-[NH₂(C₆H₁₁CH₂)CH]P(O)(OH)[CH₂C(CO₂H):CHPh].

AN 2003:114414 CAPLUS

DN 139:6950

TI Design, synthesis and evaluation of new RDP inhibitors

AU Gurulingappa, Hallur; Buckhaults, Phillip; Kumar, Srinivas K.; Kinzler, Kenneth W.; Vogelstein, Bert; Khan, Saeed R.

CS The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, Baltimore, MD, 21231, USA

SO Tetrahedron Letters (2003), 44(9), 1871-1873

CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier Science Ltd.

DT Journal

LA English

OS CASREACT 139:6950

IT 533935-35-2P 533935-36-3P 533935-37-4P

533935-38-5P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);

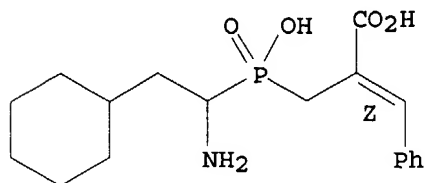
BIOL (Biological study); PREP (Preparation)

(RDP inhibition activity; stereoselective preparation and RDP inhibition activity of aminophosphinic acid derivs.)

RN 533935-35-2 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-
3-phenyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



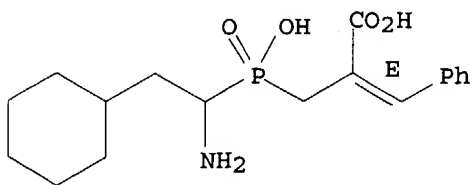
RN 533935-36-3 CAPLUS

10/627991

5/28/2004

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-
3-phenyl-, (2E)- (9CI) (CA INDEX NAME)

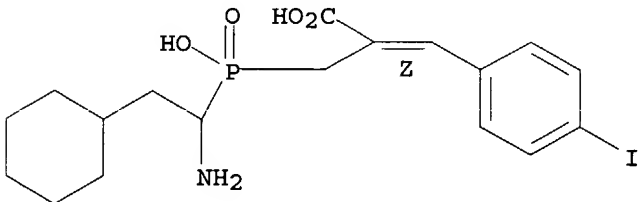
Double bond geometry as shown.



RN 533935-37-4 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-
3-(4-iodophenyl)-, (2Z)- (9CI) (CA INDEX NAME)

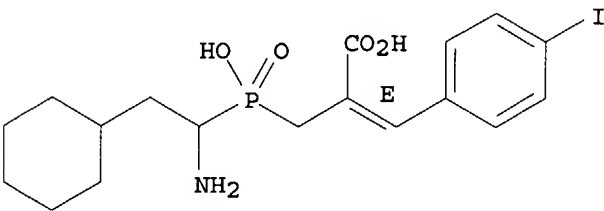
Double bond geometry as shown.



RN 533935-38-5 CAPLUS

CN 2-Propenoic acid, 2-[[[(1-amino-2-cyclohexylethyl)hydroxyphosphinyl]methyl]-
3-(4-iodophenyl)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file uspatall

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
9.95	165.58

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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FILE 'REGISTRY' ENTERED AT 16:15:58 ON 28 MAY 2004

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 21 S L1 FUL

FILE 'CAPLUS' ENTERED AT 16:16:30 ON 28 MAY 2004

L4 2 S L3

FILE 'USPATFULL, USPAT2' ENTERED AT 16:16:53 ON 28 MAY 2004

=> s l3

L5 0 L3

=> file uspatall

COST IN U.S. DOLLARS

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ENTRY	SESSION
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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=> s l3

L6 0 L3